Model:GTM96300-36VV-P2 May 11, 2025

GTM96300-36VV-P2

Information

Model Number	GTM96300-36VV-P2
Description	GTM96300-36VV-P2, Medical/ICT/ITE/Household use Power Supply, 60601-1-4th Ed. , Desktop/External, Regulated Switchmode AC-DC Power Supply AC Adaptor, , Input Rating: 100-240V~, 50-60 Hz, Input Wires 2x 305mm stranded UL1015 or equivalent, White=Neutral and Black=Line, Output Rating: 36 Watts, Power rating with convection cooling (W) , 5-54V in 0.1V increments, Approvals: UKCA; Conforms to 62368-1; Double Insulation; 230V CoC Tier 2; CB 60601-1; CB 60950; CE; CE; China RoHS; EAC; ETL; CAN ICES-3; PSE; PSE; PSE; Level VI; LPS 60950; RoHS; S-Mark IEC/EN 60601-1; S-Mark 60950; Ukraine; VCCI; WEEE; Morocco; RCM;
Model Picture	
Agency Documents	http://www.globtek.info/certs/GTM96300-TZ/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000LvrU1EAJ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000LvrU1EAJ
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

Type	Desktop/External
Technology	Regulated Switchmode AC-DC Power Supply AC Adaptor
Category	Medical/ICT/ITE/Household use Power Supply
Input Voltage	100-240V~, 50-60 Hz
I/P Amps (A)	1A
Wattage (W)	36.0
Vout Range (V)	5-54
Efficiency Level	USA DOE Level VI / Eco-design Directive 2009/125/EC, (EU) 2019/1782
Ingress Protection	IP68
Size (mm)	102*46*37

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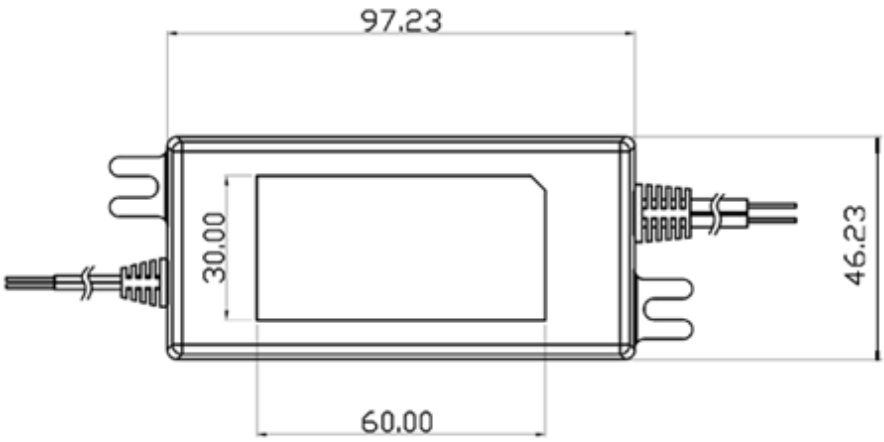
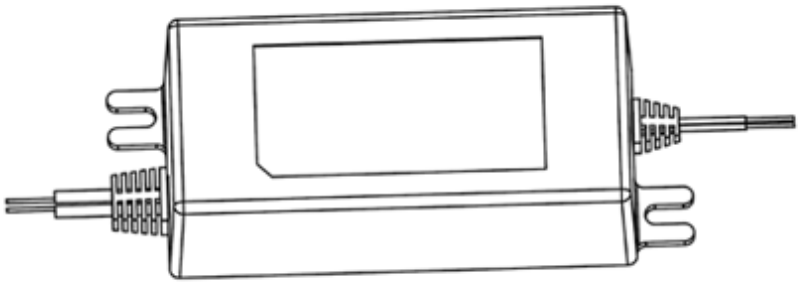
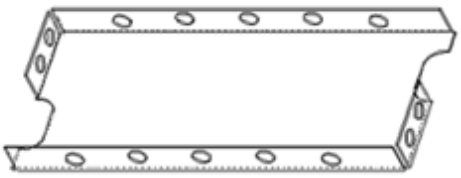
ENCLOSURE







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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTM96300-2307.5-2.5-P2	5 V	4.5	22.50	RFQ
GTM96300-3610.5-1.4-P2	9 V	3.95	35.95	RFQ

SPECIFICATIONS

A) ELECTRICAL SPECIFICATIONS:
01. Input Voltage: Specified 90-264 Vac, Nameplate rated: 100-240Vac
90-264 Vac range @ 100% of rated load current
85-264 Vac range @ 85% of rated load current
110-370 VDC range @ 100% of rated load current
02. Input Frequency: Specified 47-63 Hz, Nameplate rated 50-60Hz
03. Output Regulation: +/- 5% measured at the output connector
04. Line Voltage Regulation: +/- 0.5% typical measured at full load
05. Output Ripple (Vp-p): 1% or 100 mV whichever is greater, measured at 20 MHz bandwidth with 0.1uF ceramic capacitor in parallel with a low impedance 47uF electrolytic capacitor connected at the end of the output connector
06. Turn-On Overshoot + Transient Response: 5% maximum, 1 ms typical recovery time for 40% to 70% step load
07. Turn-On Delay: 1 second maximum @ full load, nominal line
08. Hold-Up Time: 8 ms typical @ nominal input voltage and full load
09. Inrush Current: 30A/60A maximum cold start @ 115/230Vac input
10. Efficiency: Compliant with Efficiency Level VI and CoC Tier 2 standards
11. No Load Standby Power: <0.075 W @ 230Vac
12. Green LED power indicator

B) PROTECTION
01. Input Protection: Input line fusing and 300Vac MOV
02. Short Circuit/ Overload: Electronically protected; output will auto recover upon removal of fault
Output Current Limit: 110% to 160% of rated output current
(upper end of current limit range is determined by normal output power rating,
not derated output power level)
03. Output Over-Voltage: 110% to 130% of nominal output voltage

C) SAFETY
01. Dielectric Withstand Voltage:
4000VAC or 5656VDC, primary-to-secondary
1768VAC or 2500VDC, primary-to-earth (3-conductor input models only)
1500VAC or 2121VDC, secondary-to-earth (F2 configuration only)
02. Earth Leakage Current:
300µA max. NC & SFC (N/A for 2-conductor input models), tested per IEC60601-1
03. Touch Current: Class I models < 20uA, Class II models < 75uA, tested per IEC60601-1
04. Earth Continuity Test: < 0.1 Ohm between earth pin at AC input and PCB termination point (Class I models only)
05. Means of Protection:
2 x MOPP primary-to-secondary
1 x MOPP primary-to-earth (3-conductor input models only)
1 x MOPP secondary-to-earth (F2 configuration only)
06. Compliant Standards: See listing at end of this specification for specifics
07. Output Isolation Options:
a) C8 or C18 Inlet, Class II
b) C6 or C14 Inlet, Class II FE, output isolated from earth contact
c) C6 or C14 Inlet, Class I, Output negative directly attached to earth contact

D) EMC
EN 60601-1-2, 4th edition
Emissions, per EN 55032, EN 61000-6-3, EN 61000-6-4, CISPR11 and CISPR22
Conducted Emissions: Class B, FCC Part 15, Class B
Radiated Emissions: Class B, FCC Part 15, Class B
Line Frequency Harmonics EN61000-3-2, Class A
Voltage Fluctuations/Flicker EN61000-3-3

Immunity, per EN 55035, EN 61000-6-1, EN 61000-6-2
Static Discharge Immunity EN61000-4-2, 10KV Contact Discharge, 20KV air discharge
Radiated RF Immunity EN61000-4-3, 10V/m 80-1000MHz, 3V/m 1-2.7GHz, 80% 1KHz AM.
EFT/Burst Immunity EN61000-4-4, 4KV/100KHz.
Line Surge Immunity EN61000-4-5, 2KV differential, 4KV common-mode
Conducted RF Immunity EN61000-4-6, 3Vrms, 80% 1KHz AM
Power Frequency Magnetic Field Immunity EN61000-4-8, 3A/m
Voltage Dip Immunity EN61000-4-11, Performance Criteria B/C

E) OTHER:
01. MTBF: 1,000,000 Hours @ 40°C ambient temperature, full load
02. GTM96300 Family: -10°C to 40°C ambient temperature with full load
Regarding Operating Temperature,
a- See below derating table for output power capability at alternate temperature
b- Extended low end temperature range available as custom option
03. Operating Humidity: 0% to 95% relative humidity, non-condensing
04. Storage Temperature: -30°C to 80°C
05. Operating Altitude: 5000 meters
06. ROHS: Compliant with latest regulations, see approvals section below

F) ENCLOSURE
01. Housing: High impact plastic, 94V0 polycarbonate, non-vented
02. Markings: Label or Laser Printed
03. AC Input mechanical options: Desktop C6, C8, C14 or C18 IEC Inlet.
Hybrid option (Desktop or Changeable Blade Wall Plug-in) Class I or Class II input

G) SPECIAL OPTIONS
01. Cost reduction, removal of LED
02. Custom cordsets, various cordage types, and connector types
03. Custom markings
04. Short term output surge capability
05. Reduced leakage current versions
06. Tightened output voltage tolerance
07. Reduced output ripple level
08. Reduced output power rating marking
09. High reliability PCB laminate with plated through holes for IPC610 Class 2 compliance
10. Special housing colors and cordset colors
11. Quasi constant current output, for battery charger applications
12. Back EMF applications, custom solutions. For unusual motor load aps and other high inductance reverse energy flow requirements
13. Improved ingress protection rating

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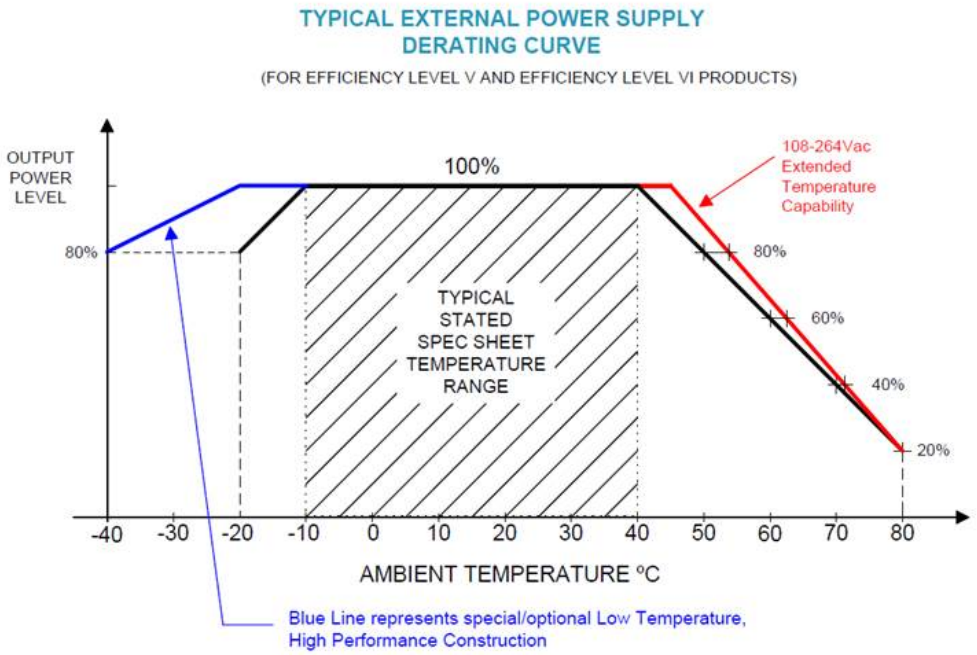
DERATING CURVE



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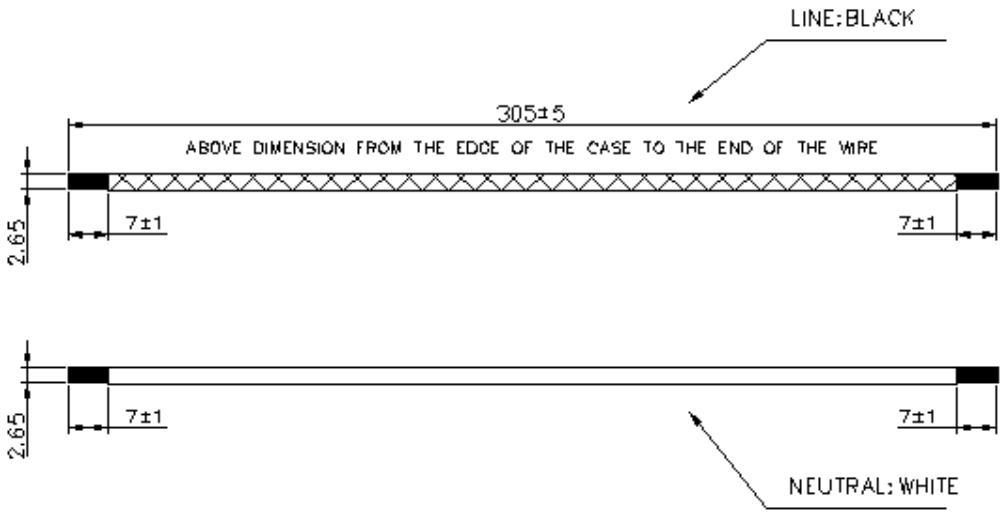
INPUT CONFIGURATION

Description	Input Wires 2x 305mm stranded UL1015 or equivalent, White=Neutral and Black=Line



Wire gauge (AWG): 18 AWG

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OUTPUT CONFIGURATION

Common output connector options:

 L Type (Coaxial 5.5x2.5mm plug)	 C Type (Coaxial 5.5x2.1mm plug)	 K Type (Coaxial 3.5x1.3mm plug)	 LL Type (5.5x2.5mm Locking 760k type)	 CL Type (5.5x2.1mm Locking S761k type)	 ML2 Type (Molex housing 43025-0200)
 YL3 Type (KPPX-3P)	 YL4 Type (KPPX-4P)	 EJ1/2/3/4/5 (EIAJ RC-5320A type connectors)	 MSB Type (Micro USB)	 USBC Type (USB Type C)	 Inquire for custom design

For a comprehensive list of options, click here

Contact GlobTek for your specific requirements or custom solutions.

Approvals

Logo	Description
No Logo Applicable	EU 230V CoC Tier 2, 278/2009, Mar 2014
No Logo Applicable	CB for IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint) (Ed 3.1) up to 48V only
No Logo Applicable	CB for IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
CE	CE Mark: tested to comply with EN 55032:2012+AC:2013, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010, EN 60601-1-2:2015
CE	CE Certification CE Mark: tested to comply with EN 55032.2012+AC.2013 EN 61000-3-2.2014 EN 61000-3-3.2013 EN 60601-1-2.2015 EN 55024.2010
30	CHINA SJ/T 11364-2014, China RoHS Chart: http://www.globtek.com/pdf/F-GT-DJD-8.4.1-006%20China%20RoHS%20Declaration%205-20-22.pdf
Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1	Conforms to UL STD. 62368-1 Certified to CSA STD C22.2 NO.62368-1
EAC	Declaration ДС № ЕАЭС N RU Д-US.КА01.В.10453_19 Custom Union of Russia, Belarus and Kazakhstan http://www.globtek.com/redirect/?loc=gost-certificate-eac-declaration
RECOGNIZED COMPONENT c ETL us Intertek	IEC 60601-1-11 Issued: 2015/01/20 Ed. 2 Medical Elec. Equip.- Part 1-11: Gen. Req. for Basic Safety & Essential Perf.- Collateral Standard - Req. for Medical Elec. Equip. & Medical Elec.Systems Used in the Home Healthcare Environment; up to 48V only
	Compliance of this PSU with Industry Canada, Class B demonstrated with a standard output load. The ICES law stipulates that system-level testing is required to demonstrate compliance with the

CAN ICES-3(B)/NMB-3(B)	ICES-3 emission limits with the actual system load.
GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50473430, to J62368-1(H30) , J55032(H29),J3000(H25)[15V or less]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD50473430 , to J62368-1(H30) , J55032(H29),J3000(H25)[DC15?30V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
GlobTek, Inc.	JAPAN TUV R-PSE, Cert. No. JD 50473430, to J62368-1(H30) , J55032(H29),J3000(H25)[DC30?60V]. Please reference the following website for guidelines on PSE regulations: https://www.globtek.com/r2/Szj4Vb
EFFICIENCY LEVEL VI	Efficiency: complies to section 301 of Energy Independence and Security Act (EISA) complies with Energy Star tier 2 (North America), ECP tier 2 (China), MEPS tier 2 (Australia), Code of Conduct (Europe)
LPS	Limited Power Source 60950
	Morocco SDoC declaration http://www.globtek.info/certs/Morocco%20SDoC%20Declaration/
GMA-515496-EA	RCM certificate GMA-515958-EA; Australia and New Zealand Regulatory Compliance, Mark (http://rcm.standards.org.au/rcmfaq/rcmfaq.htm
RoHS	Specifications of directive 2011/65/EU Annex VI (ROHS-2) with amendment 2015/863-EU (ROHS-3) http://www.ce-mark.com/Rohs%20final.pdf
Intertek	IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 (2007) + AM1 (2012) EN 60601-1:2006/ A1:2013+A12:2014 up to 48V only
Intertek	S-Mark Certificate EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 +A2:2013 (http://www.intertek.com/marks/s/)

UK CA	UKCA Certification
10276	Ukraine UKRSepro (Document: www.globtek.com/html/iso_certificates/GT_Ukraine.pdf)
VCCI	Japan: Voluntary Control Council for Interference (VCCI)
	WEEE: Complies with EU 2012/19/EU (http://ec.europa.eu/environment/waste/weee/index_en.htm) Mark is on the label or Molded in the case